

EXHIBIT 32




MSP Support Security Improvement

SECURITY
NOVEMBER 2019

MSP Support Portal | Security Improvements

Enterprise Proposal



Problem Statement

- MSP Support staff has a significant level of system level access to both MSPs and MSP customers.** The level of access is excessive and if abused poses a significant insider threat. Currently, a support person has the ability to gain privileged access, connect or run procedures on one or more MSPs and their customer environments.
 - N-Central:** Support staff has access to usernames and passwords for all MSP distributors and customers.
 - RMM:** Support staff has access to a distribution portal that enables access directly to customer's environments. We have not seen any cases of this type of abuse from the support team but if an adversary was looking to circumvent our security an insider attack would be one of the easiest to perform.
- Recent incidents have involved support staff and engineering's inappropriate access to customers environments.**
 - To diagnose product issues, the SolarWinds team used a remote session to a client environment without notifying the MSP or the client.
 - While testing a release, the SolarWinds engineering team copied a customer environment and inadvertently created 400+ tickets in a customer's PSA.

Anticipated Outcomes

Support roles aligned with least privilege <ul style="list-style-type: none"> Super User / Admin separated from Support / Read only role Customer's legal documents reviewed for explicit consent Customer Support will act as the gate keeper to customer system access 	Improved ability of MSPs to easily disable SolarWinds access <ul style="list-style-type: none"> N-Central token authentication will reduce the risk of support staff accessing distributor passwords RMM will do XYZ
--	---

Plan / Approach

- Implement changes in N-Central and RMM

Success Criteria

Customer Empowerment	Appropriate Access	Reduction in Incidents
----------------------	--------------------	------------------------

@solarwinds

What is PSA?

N-Central

MSP Support Security Improvements



Improvement Recommendation

- A
- Enable token authentication
 - Create a microservice, that grants remote access
 - Shared public key with microservice for JSON Web Token (JWT) authentication
 - Time boxed credentials to reduce risk with offboarding
 - Enables identification of the human using the credential
 - Requires effort on N-Central appliance, Activation Server, creation of Token Authority Microservice

Enablement Request

- A
- Enable token authentication
 - 19 person weeks / consulting

CONFIDENTIAL - FOR INTERNAL USE ONLY © 2018 SolarWinds Worldwide, LLC. All rights reserved.

@solarwinds

3

RMM



- Recommendations

- The Ask

CONFIDENTIAL - FOR INTERNAL USE ONLY © 2018 SolarWinds Worldwide, LLC. All rights reserved.

@solarwinds

4

Next Steps – Proposed Timeline



High Level Schedule

No.	Milestone	Start	Finish	Status
1				
2				
3				
4				
5				
6				
7				
8				

CONFIDENTIAL – FOR INTERNAL USE ONLY © 2018 SolarWinds Worldwide, LLC. All rights reserved.

@solarwinds

5

THANK YOU!



© 2023 SolarWinds, Inc. All rights reserved. SolarWinds, the SolarWinds logo, and other marks contained herein are trademarks of SolarWinds, Inc. All other marks contained herein are the property of their respective owners.

@solarwinds

6



SolarWinds Scorecard

NIST Maturity Level



Security Category	2017	2018	2019
Identify	0.8	2.0	3.0
Protect	1.5	3.0	3.2
Detect	1.0	2.8	3.6
Respond	0.8	2.8	3.6
Recover	0.7	2.0	2.0
Overall	1.0	2.5	3.1

Maturity Level	Description
0	There is no evidence of the organization meeting the security control objectives or is unassessed
1	The organization has an ad-hoc, inconsistent, or reactive approach to meeting the security control objectives
2	The organization has a consistent overall approach to meeting the security control objectives, but it is still mostly reactive and undocumented. The organization does not routinely measure or enforce policy compliance
3	The organization has a documented, detailed approach to meeting the security control objectives, and regularly measure its compliance
4	The organization uses an established risk management framework to measure and evaluate risk and integrate improvements beyond the requirements of applicable regulations
5	The organization has refined its standards and practices focusing on ways to improve its capabilities in the most efficient and cost effective manner

CONFIDENTIAL – INTERNAL USE ONLY ©2018 SolarWinds Worldwide, LLC. All rights reserved.

@solarwinds

7



INDENTIFY



Highlights

- Instituted standardized security scoring method (CVSS). 421 internally discovered issues marked security | 292 resolved in 1H 2019
- Open Source License Scanning coverage across entire portfolio
- Full lifecycle software asset management
- ISO certifications achieved for RMM, Backup, Take Control, N-central, Mail Assure (in progress), SOC 2 Type 1 for Passport, Loggly & App Optics (in progress)
- Threat intel ingestion remains a manual process

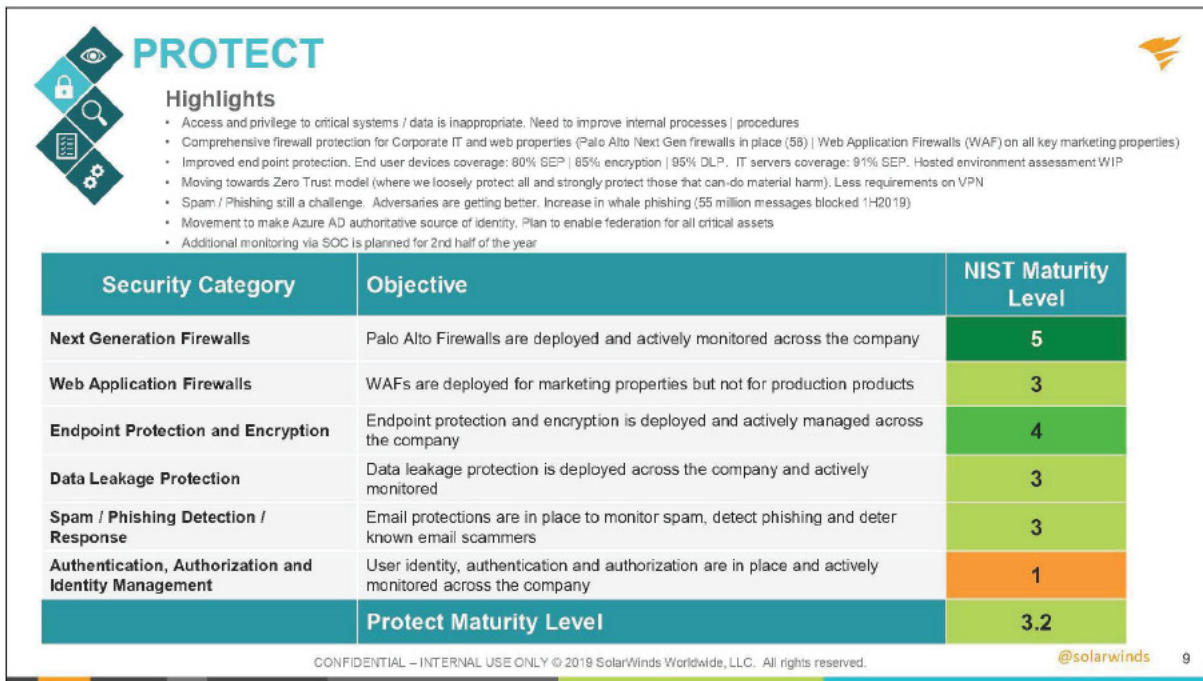
Security Category	Objective	NIST Maturity Level
Asset Management	Internally and externally facing assets are identified and actively managed	3
Secure Software Development Lifecycle (SSDL)	Employees are aware of and utilize a security software development lifecycle in their day to day activities	2
Open Source License Scanning	Open source code used is scanned and remediated as needed	3
Product Certifications	ISO 27001 information security management system (ISMS) framework of policies and procedures are followed and audited annually	3
NIST internal program assessment	The internal security program and practices are aligned with NIST	3
Vendor Management / Procurement	Vendor management and procurement practices include security reviews for each asset	5
Identify Maturity Level		3.2

CONFIDENTIAL – INTERNAL USE ONLY © 2019 SolarWinds Worldwide, LLC. All rights reserved.

@solarwinds

8

495/6 =82.5



399/5=79.8

Q&A



SOLARWINDS, INC. AND SOLARWINDS.COM ARE TRADEMARKS OF SOLARWINDS, INC. ALL RIGHTS RESERVED.

@solarwinds 10